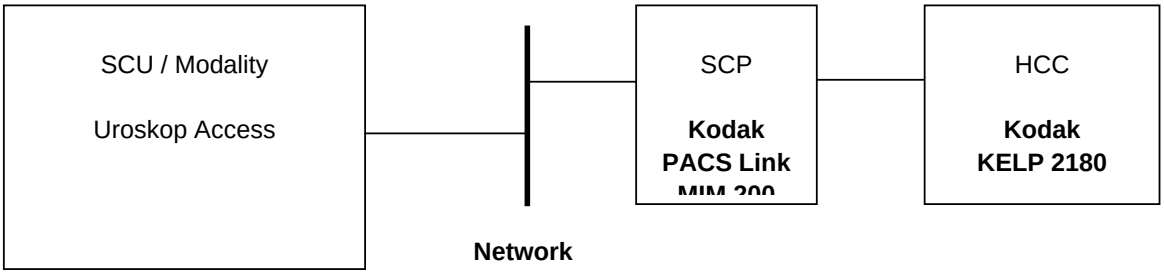
Product:	Uroskop Access
Title:	Specific Hardcopy Camera Information for Kodak KELP 2180 / PACS Link MIM 200
Systems affected:	Image System ASPIA
Replaces:	n.a.

1 General Information

1.1 Block Diagram



1.2 Available Film Sizes

Application			Film Type	Medium Type
14"x17"	Portrait	yes	DHG-10	blue based
	Landscape	yes		
14"x14"	Portrait	yes	DHG-10	blue based
	Landscape	yes		
11"x14"	Portrait	yes	DHG-10	blue based
	Landscape	yes		
8"x10"	Portrait	yes	DHG-10	blue based
	Landscape	yes		
others		n.a.	n.a.	n.a.

yes - Film size is available and released
no - Film size is available but not released
n.a. - Film size is not available

1.3 Restrictions

For HCC-independent restrictions, see also the general restrictions in the document Uroskop Access, General Hardcopy Information.

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2 Modality SW Configurations / Parameters

Refer to: Uroskop Access, General Hardcopy Camera Information.

Application Entity Properties	**Display**	**Changes allowed yes/no**
AE Title	K2180 (*1)	Yes
Port Number	5040	**No**
Supported DICOM Services	Print	**No**

HC Device / General Settings		**Display**	**Changes allowed yes/no**
Type		DICOM printer	**No**
Class (Printer Spec File Name)		kodak2180	**No**
DICOM Node		Kelp2180	**Yes**
Filming Properties		**Display**	**Changes allowed yes/no**
Hold Printed Film Jobs		10	Yes
Min. Density		0.20	**No**
Pixel Size [1/1000 mm]		79x79	**No**
Film Sheet Formats, Portrait	**Number of pixels [columns x rows]**	14x17 inches 4096x5156 14x14 inches 4096x4132 11x14 inches 3236x4132 8x10 inches 2284x2836	In "define new" Do not modify/add Select only Delete only
Film Sheet Formats, Landscape	**Number of pixels [columns x rows]**	14x17 inches 5156x4096 14x14 inches 4132x4096 11x14 inches 4132x3236 8x10 inches 2836x2286	In "define new" Do not modify/add Select only Delete only
Medium Type		blue film	Yes
Film Destination		processor	**No**
Color Appearance		monochrome	**No**
Background		black	Yes
Transformation		no magnification	**No**
Note: Do not modify and/or add film sizes. Do not modify pixel sizes. Delete film sizes that are not available at the customer site.			

(*1) Please do not use AE Title like “NER_…”

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3 Hardcopy Camera, Configuration

3.1 Identification

Manufacturer / Device Type:	**DICOM Print Server (SCP)**	**Printer**
Device Name:	Kodak / PACS Link MIM 200	KELP 2180
HW Revision:	IBM, PC300L	
SW Revision:	V 5.2	V 2.17H
Image Memory:	64 MB	n.a.
Hard Disk:	2GB	n.a.
Number of Operating Panels:	1Keypad	1 built-in keypad
No./Type of Input:	1 Ethernet Board (RJ45)	1 Input Module (Fiber Optic)
No./Type of Output:	1 Ethernet Board (Fiber Optic)	
Physical Network Interface:	100/10 Base-T Ethernet, UTP/STP	None
Network Protocol:	TCP / IP	None
DICOM Conformance Statement:	Rev. D, Aug 30, 2002, No. 3E5252	None

3.2 SCP / Printer Settings (provided by Kodak)

file name	content	remarks
	MIM200 Setup: ■ on Configure, Network: ■ Computer Name=eg Kodak2180, IPAddr=accordingly ■ Subnet Mask=accordingly, Gateway Addr=accordingly ■ on Configure, Input, Network, Add: ■ Protocol=DICOM 3.0, Log.Name=DICOM, Type/Com=Keypad/COM9 ■ on Configure, Destination, Add, Print, Direct, Qualified, KELP 2180, Set: ■ General: Log.Name=KELP2180, Database Name=KELP 2180 ■ General: Model=KELP 2180, Memory=24, Node ID=6 or accordingly ■ Media Info: Media=35x43cm, 4136x5160, 5030, (Blue) ■ Media Info:Media=35x35cm,4136x4136,4006, (Blue) ■ Media Info: Media=11x14in, 3240x4136, 4006, (Blue) ■ Media Info: Media=8x10in, 2290x2840, 2710, (Blue) ■ Supported Item: Collation=On, Text=On, Tonescaling=On, Rotation=On ■ Interpolation: NoMag=On, Bil=On, Repl=On,Cubic=On, Cubic 2=On ■ Format Types: Custom=On, Slide=On, Row Symmetric=On ■ Format Types: 1, 2, 4, 6, 8, 9, 12, 15, 16, 20, 24, 30, 35=On ■ Formatting: Aspect Ratio Mix on Page=On, Image Size Mix in Std Fmt=On ■ Formatting: DICOM Annotation Box=On, Req.Size Scale=On ■ Formatting: Req.Size Mix in Row=On, Trim=On ■ Formatting: Aspect Ratio Mix in Row=On, Image Size Mix in Row=On ■ Formatting: Req.Image Size=On, Req.Size Mix on Page=On ■ Formatting: True Landscape=On ■ Formatting: Max Img per Band=20, Max Band per Page=20, Max Img Col=0 ■ Formatting: Max Img Row=0, Min Horiz Sep=2, Min Vert Sep=2 ■ Formatting: Trim Width Enabled=2, Trim Width Disabled=2 ■ Formatting: Pixel Pitch=12.6582 ■ Image Processing: Grayscale=On, Minify=On, Max Image Dmax=3.2 ■ M952 Usage: Min H/V Mag=0, Max H/V Mag=0, Min Dmax 952=1.7 ■ on Configure, SCP Services, select the specific modality, Modify:	

	■ Image Resizing, Resizing <M/S>=Minify/Scale, Always Apply=N ■ Relocate Text Box, Location = none ■ **N-EVENT Reporting, Reporting =N, Always Apply=Y** ■ Warning Status=Y ■ PLUT=N ■ Tone Scaling=CS (Curve Shape), Always Apply=Y ■ Curve Shape/TFT, Curve Shape=0.0, Always Apply=Y ■ Contrast (wet)=+0, Always Apply=N ■ Interpolation=No Mag., Always Apply=N ■ Image Dmin=0.00, Always Apply=N ■ Image Dmax=2.80, Always Apply=N ■ Polarity=Normal, Always Apply=N ■ Border=3.99, Always Apply=N ■ Size=14INx17IN, Always Apply=N ■ Base=Blue Film, Always Apply=N ■ Priority=Normal, Always Apply=N ■ Page Annotation, Annotation Setup, Always Apply=N, Modality ID=Off, Hospital Name=Off, Print Date=Off, Print Time=Off, Page Number=Off ■ Film Output=9*, Always Apply=N, * = no. of sorter **2180 Setup:** ■ Optical Interface board will automatic configure into 2180, no setup needed	

Note:Maximum number of associations supported: 9

3.3 Error and Warning Messages

Printer (SCP) defined message	Displayed message at modality (SCU)
NO SUPPLY MGZ	CHECK CAMERA
PRINTER OFFLINE	CAMERA OFFLINE
SUPPLY EMPTY	FILM SUPPLY NOT AVAILABLE
FILM JAM	FILM JAM
CHECK PRINTER	CHECK CAMERA

No other errors or warnings have been tested.

4 Image Quality and Optical Density

4.1 Reference Film and LUT

Released Film Type	**Kodak DHG-10**	Blue-based medium type

Refer to: Uroskop Access, General Hardcopy Camera Information.

4.2 Real Size Scaling

n.a.

5 Abbreviations

DCS	DICOM Conformance Statement
DICOM	Digital Imaging and Communication in Medicine
HW / SW	Hardware / Software
HCC	Hardcopy Camera
LUT	Look Up Table
OEM	Original Equipment Manufacturer
SCP	Service Class Provider
SCU	Service Class User
TCP/IP	Transfer Control Protocol / Internet Protocol

6 Changes to Previous Version

n.a.

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